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Hugoniot Equations of State of Li^6H , Li^6D , Li^nH , and Li^nD (U)

by

S. P. Marsh

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by authority of the U. S. Atomic Energy Commission,

Per J. L. Cuccinara, Chief Tech. Br. 1-3-74By REPORT LIBRARY P. J. Martinez, 3-27-74

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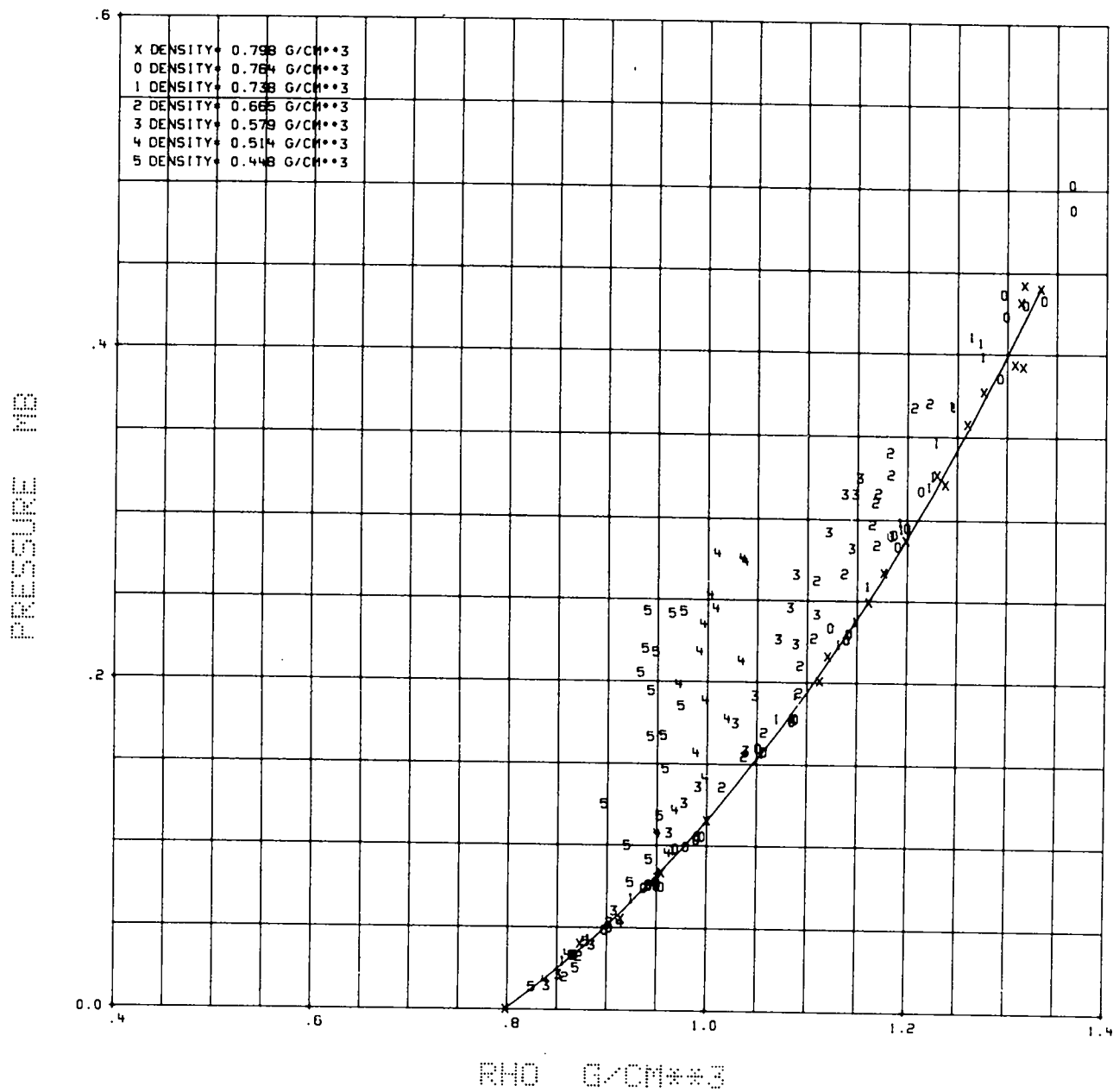


Fig. 1. Experimental pressure-density Hugoniot data for Li^6D at seven different porosities. The curve is the fit shown in Fig. 2.

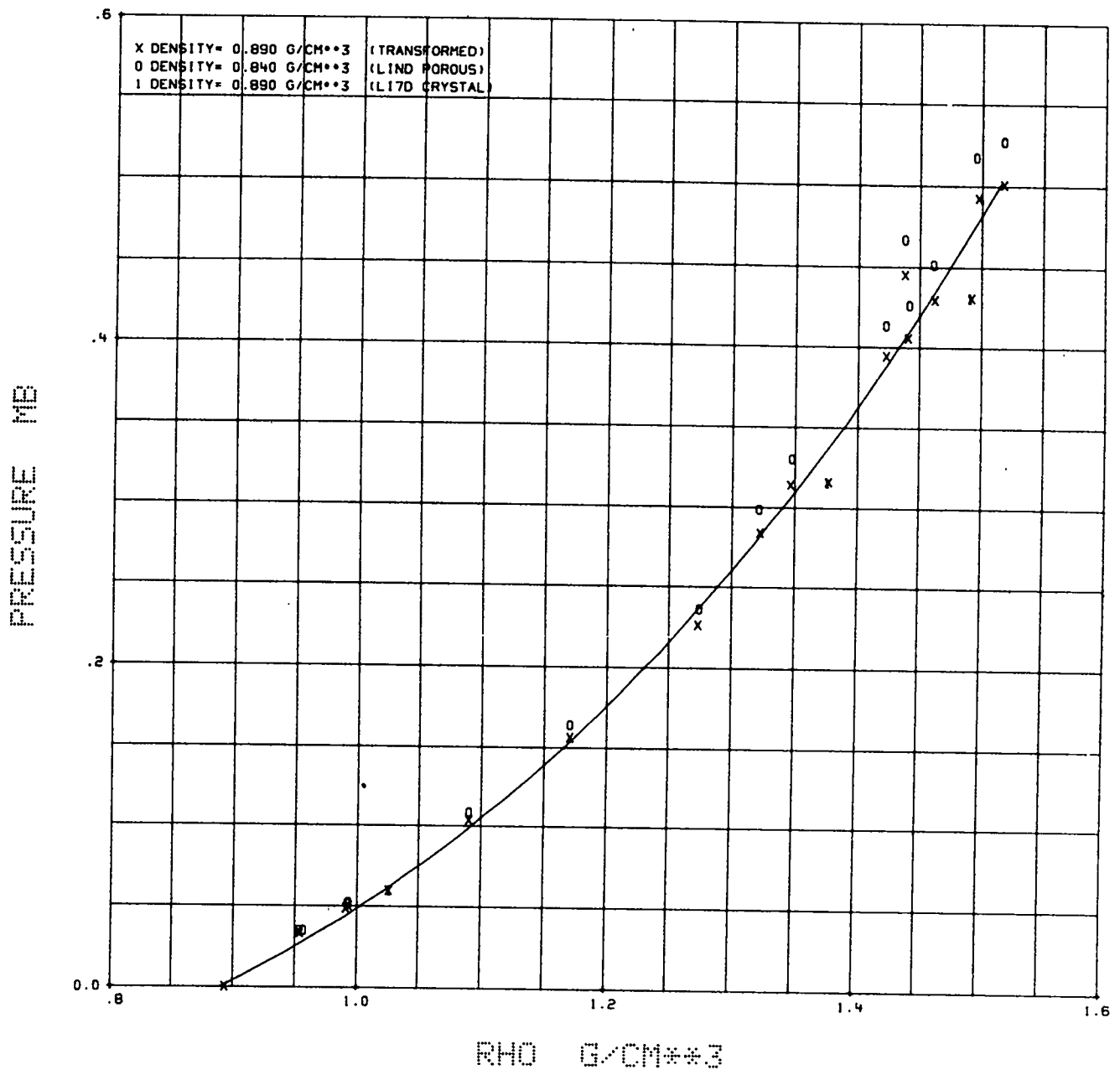


Fig. 10. Pressure-density Hugoniot data for Li^3D and Li^7D . Porous Hugoniot data for Li^3D and experimental single-crystal data for Li^7D are shown along with transformed crystal-density points. The curve is the fit shown in Fig. 9.

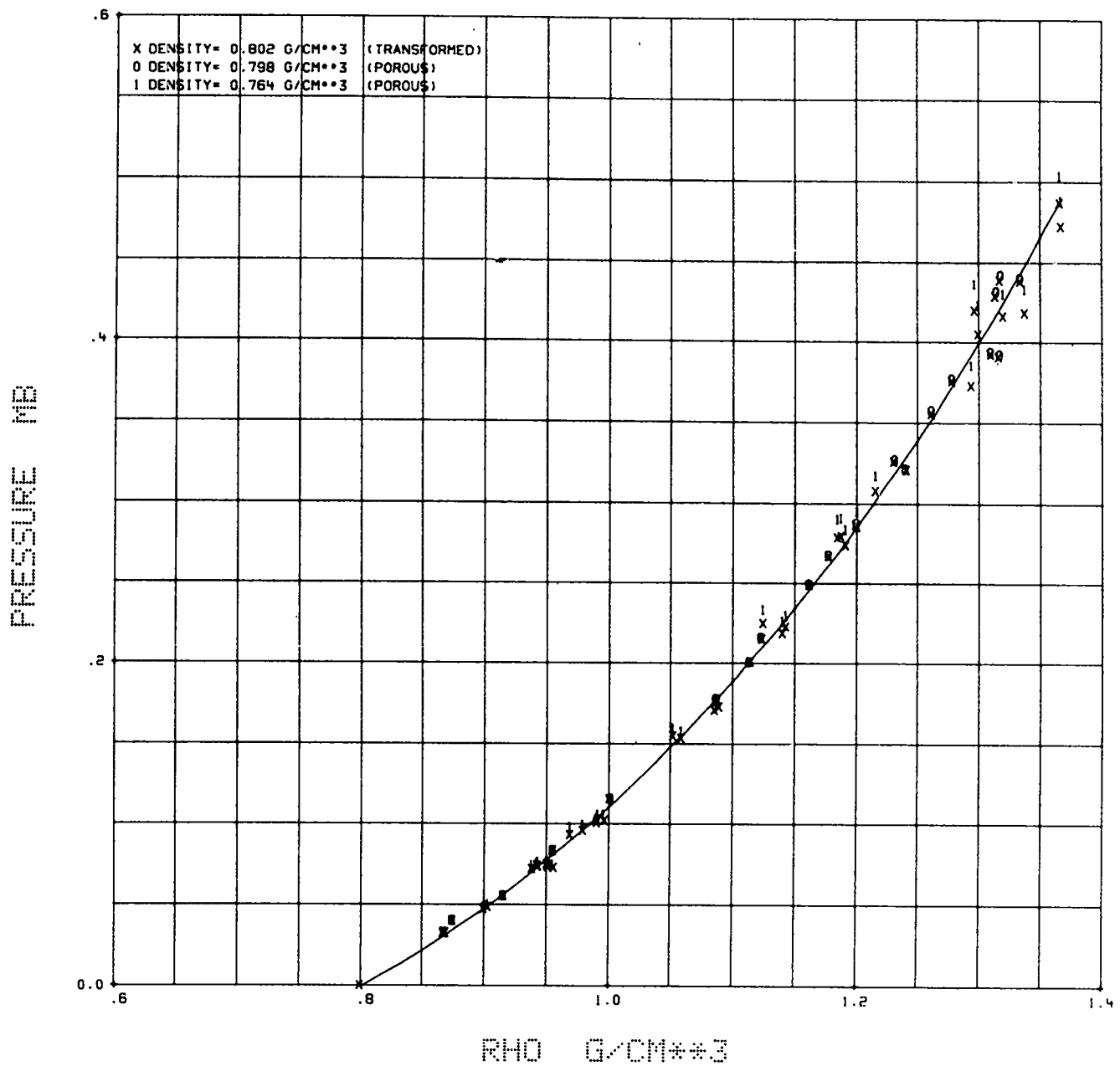


Fig. 12. Pressure-density Hugoniot data for Li^6D . Experimental porous Hugoniot data ($\bar{\rho}_0 = 0.798$ and 0.764 g/cm^3) and transformed crystal-density Hugoniot points are shown. The curve is the fit shown in Fig. 11.